

#3 300



PCT10

RAW SEQUENCE LISTING

DATE: 02/08/2002

PATENT APPLICATION: US/10/030,389

TIME: 10:33:11

Input Set : A:\ippf0715pct.app.txt

Output Set: N:\CRF3\02082002\J030389.raw

P.S

ENTERED

4 <110> APPLICANT: INCYTE GENOMICS, INC.
5 TANG, Y. Tom
6 YUE, Henry
7 YANG, Junming
8 AZIMZAI, Yalda
9 BAUGHN, Mariah R.
10 LU, Dyung Aina M.
12 <120> TITLE OF INVENTION: HUMAN IMMUNE RESPONSE MOLECULES
14 <130> FILE REFERENCE: PF-0715 PCT
C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/030,389
C--> 17 <141> CURRENT FILING DATE: 2002-01-03
19 <150> PRIOR APPLICATION NUMBER: 60/142,572; 60/153,170
W--> 20 <151> PRIOR FILING DATE: 1999-07-06; 1999-09-09
22 <160> NUMBER OF SEQ ID NOS: 20
23 <170> SOFTWARE: PERL Program
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 737
27 <212> TYPE: PRT
28 <213> ORGANISM: Homo sapiens
30 <220> FEATURE:
31 <221> NAME/KEY: misc_feature
32 <223> OTHER INFORMATION: Incyte ID No: 089071CD1
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35 Met Arg Ala Gln Asp Ile Ile Gly His His Gln Ser Glu Asp Arg
36 1 5 10 15
37 Glu Thr Ser Asp Arg Ala His Asp Glu Asn Lys Lys Lys Ala Lys
38 20 25 30
39 Ile Gln Lys Lys Pro Ile Lys Lys Lys Lys Glu Asp Asp Val Gly
40 35 40 45
41 Ile Glu Arg Gly Asn Ile Glu Thr Thr Ser Glu Asp Gly Gln Val
42 50 55 60
43 Phe Ser Pro Lys Lys Gly Gln Lys Lys Lys Ser Ile Glu Lys Lys
44 65 70 75
45 Arg Lys Lys Ser Lys Gly Asp Ser Asp Ile Ser Asp Glu Glu Ala
46 80 85 90
47 Val Gln Gln Ser Lys Lys Arg Gly Pro Arg Thr Pro Pro Ile
48 95 100 105
49 Thr Thr Lys Glu Glu Leu Val Glu Met Cys Ser Gly Lys Asn Gly
50 110 115 120
51 Ile Leu Glu Asp Ser Gln Lys Lys Glu Asp Thr Ala Phe Ser Asp
52 125 130 135
53 Trp Ser Asp Glu Asp Val Pro Asp Arg Thr Glu Val Thr Glu Ala
54 140 145 150

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55 Glu His Thr Ala Thr Ala Thr Thr Pro Gly Ser Thr Pro Ser Pro
56          155          160          165
57 Leu Ser Ser Leu Leu Pro Pro Pro Pro Pro Val Ala Thr Ala Thr
58          170          175          180
59 Ala Thr Thr Val Pro Ala Thr Leu Ala Ala Thr Thr Ala Ala Ala
60          185          190          195
61 Ala Thr Ser Phe Ser Thr Ser Ala Ile Thr Ile Ser Thr Ser Ala
62          200          205          210
63 Thr Pro Thr Asn Thr Thr Asn Asn Thr Phe Ala Asn Glu Asp Ser
64          215          220          225
65 His Arg Lys Cys His Arg Thr Arg Val Glu Lys Val Glu Thr Pro
66          230          235          240
67 His Val Thr Ile Glu Asp Ala Gln His Arg Lys Pro Met Asp Gln
68          245          250          255
69 Lys Arg Ser Ser Ser Leu Gly Ser Asn Arg Ser Asn Arg Ser His
70          260          265          270
71 Thr Ser Gly Arg Leu Arg Ser Pro Ser Asn Asp Ser Ala His Arg
72          275          280          285
73 Ser Gly Asp Asp Gln Ser Gly Arg Lys Arg Val Leu His Ser Gly
74          290          295          300
75 Ser Arg Asp Arg Glu Lys Thr Lys Ser Leu Glu Ile Thr Gly Glu
76          305          310          315
77 Arg Lys Ser Arg Ile Asp Gln Leu Lys Arg Gly Glu Pro Ser Arg
78          320          325          330
79 Ser Thr Ser Ser Asp Arg Gln Asp Ser Arg Ser His Ser Ser Arg
80          335          340          345
81 Arg Ser Ser Pro Glu Ser Asp Arg Gln Val His Ser Arg Ser Gly
82          350          355          360
83 Ser Phe Asp Ser Arg Asp Arg Leu Gln Glu Arg Asp Arg Tyr Glu
84          365          370          375
85 His Asp Arg Glu Arg Glu Arg Glu Arg Arg Asp Thr Arg Gln Arg
86          380          385          390
87 Glu Trp Asp Arg Asp Ala Asp Lys Asp Trp Pro Arg Asn Arg Asp
88          395          400          405
89 Arg Asp Arg Leu Arg Glu Arg Glu Arg Glu Arg Glu Arg Asp Lys
90          410          415          420
91 Arg Arg Asp Leu Asp Arg Glu Arg Glu Arg Leu Ile Ser Asp Ser
92          425          430          435
93 Val Glu Arg Asp Arg Asp Arg Asp Arg Asp Arg Thr Phe Glu Ser
94          440          445          450
95 Ser Gln Ile Glu Ser Val Lys Arg Cys Glu Ala Lys Leu Glu Gly
96          455          460          465
97 Glu His Glu Arg Asp Leu Glu Ser Thr Ser Arg Asp Ser Leu Ala
98          470          475          480
99 Leu Asp Lys Glu Arg Met Asp Lys Asp Leu Gly Ser Val Gln Gly
100          485          490          495
101 Phe Glu Glu Thr Asn Lys Ser Glu Arg Thr Glu Ser Leu Glu Gly
102          500          505          510
103 Asp Asp Glu Ser Lys Leu Asp Asp Ala His Ser Leu Gly Ser Gly

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104		515		520		525
105	Ala Gly Glu Gly Tyr Glu Pro Ile Ser Asp Asp Glu Leu Asp Glu					
106		530		535		540
107	Ile Leu Ala Gly Asp Ala Glu Lys Arg Glu Asp Gln Gln Asp Glu					
108		545		550		555
109	Glu Lys Met Pro Asp Pro Leu Asp Val Ile Asp Val Asp Trp Ser					
110		560		565		570
111	Gly Leu Met Pro Lys His Pro Lys Glu Pro Arg Glu Pro Gly Ala					
112		575		580		585
113	Ala Leu Leu Lys Phe Thr Pro Gly Ala Val Met Leu Arg Val Gly					
114		590		595		600
115	Ile Ser Lys Lys Leu Ala Gly Ser Glu Leu Phe Ala Lys Val Lys					
116		605		610		615
117	Glu Thr Cys Gln Arg Leu Leu Glu Lys Pro Lys Asp Ala Asp Asn					
118		620		625		630
119	Leu Phe Glu His Glu Leu Gly Ala Leu Asn Met Ala Ala Leu Leu					
120		635		640		645
121	Arg Lys Glu Glu Arg Ala Ser Leu Leu Ser Asn Leu Gly Pro Cys					
122		650		655		660
123	Cys Lys Ala Leu Cys Phe Arg Arg Asp Ser Ala Ile Arg Lys Gln					
124		665		670		675
125	Leu Val Lys Asn Glu Lys Gly Thr Ile Arg Gln Ala Tyr Thr Ser					
126		680		685		690
127	Ala Pro Met Val Asp Asn Glu Leu Leu Arg Leu Ser Leu Arg Leu					
128		695		700		705
129	Phe Lys Arg Lys Thr Thr Cys His Ala Pro Gly His Glu Lys Thr					
130		710		715		720
131	Glu Asp Asn Lys Leu Ser Gln Ser Ser Ile Gln Gln Glu Leu Cys					
132		725		730		735
133	Val Ser					
135	<210> SEQ ID NO: 2					
136	<211> LENGTH: 319					
137	<212> TYPE: PRT					
138	<213> ORGANISM: Homo sapiens					
140	<220> FEATURE:					
141	<221> NAME/KEY: misc_feature					
142	<223> OTHER INFORMATION: Incyte ID No: 2378306CD1					
144	<400> SEQUENCE: 2					
145	Met Arg Leu Ala Thr Lys Gly Gln Asp Ile Gln Glu Cys Thr Thr					
146	1 5 10 15					
147	Gln Ile Gln Tyr Leu Lys Gln Val Gln Gln Pro Ser Val Ala Gln					
148	20 25 30					
149	Leu Arg Ser Thr Met Val Asp Pro Ala Ile Asn Leu Phe Phe Leu					
150	35 40 45					
151	Lys Met Lys Gly Glu Leu Glu Gln Thr Lys Asp Lys Leu Glu Gln					
152	50 55 60					
153	Ala Gln Asn Glu Leu Ser Ala Trp Lys Phe Thr Pro Asp Ser Gln					
154	65 70 75					
155	Thr Gly Lys Lys Leu Met Ala Lys Cys Arg Met Leu Ile Gln Glu					

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TIME: 10:33:11

Input Set : A:\ippf0715pct.app.txt

Output Set: N:\CRF3\02082002\J030389.raw

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156          80          85          90
157 Asn Gln Glu Leu Gly Arg Gln Leu Ser Gln Gly Arg Ile Ala Gln
158          95          100          105
159 Leu Glu Ala Glu Leu Ala Leu Gln Lys Lys Tyr Ser Glu Glu Leu
160          110          115          120
161 Lys Ser Ser Gln Asp Glu Leu Asn Asp Phe Ile Ile Gln Leu Asp
162          125          130          135
163 Glu Glu Val Glu Gly Met Gln Ser Thr Ile Leu Val Leu Gln Gln
164          140          145          150
165 Gln Leu Lys Glu Thr Arg Gln Gln Leu Ala Gln Tyr Gln Gln Gln
166          155          160          165
167 Gln Ser Gln Ala Ser Ala Pro Ser Thr Ser Arg Thr Thr Ala Ser
168          170          175          180
169 Glu Pro Val Glu Gln Ser Glu Ala Thr Ser Lys Asp Cys Ser Arg
170          185          190          195
171 Leu Thr Asn Gly Pro Ser Asn Gly Ser Ser Ser Arg Gln Arg Thr
172          200          205          210
173 Ser Gly Ser Gly Phe His Arg Glu Gly Asn Thr Thr Glu Asp Asp
174          215          220          225
175 Phe Pro Ser Ser Pro Gly Asn Gly Asn Lys Ser Ser Asn Ser Ser
176          230          235          240
177 Glu Glu Arg Thr Gly Arg Gly Gly Ser Gly Tyr Val Asn Gln Leu
178          245          250          255
179 Ser Ala Gly Tyr Glu Ser Val Asp Ser Pro Thr Gly Ser Glu Asn
180          260          265          270
181 Ser Leu Thr His Gln Ser Asn Asp Thr Asp Ser Ser His Asp Pro
182          275          280          285
183 Gln Glu Glu Lys Ala Val Ser Gly Lys Gly Asn Arg Thr Val Gly
184          290          295          300
185 Ser Arg His Val Gln Asn Gly Leu Asp Ser Ser Val Asn Val Gln
186          305          310          315
187 Gly Ser Val Leu
189 <210> SEQ ID NO: 3
190 <211> LENGTH: 131
191 <212> TYPE: PRT
192 <213> ORGANISM: Homo sapiens
194 <220> FEATURE:
195 <221> NAME/KEY: misc_feature
196 <223> OTHER INFORMATION: Incyte ID No: 3706232CD1
198 <400> SEQUENCE: 3
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200 1          5          10          15
201 Ser Leu Ile Gly Ala Leu Ile Pro Glu Pro Glu Val Lys Ile Glu
202          20          25          30
203 Val Leu Gln Lys Pro Phe Ile Cys His Arg Lys Thr Lys Gly Gly
204          35          40          45
205 Asp Leu Met Leu Val His Tyr Glu Gly Tyr Leu Glu Lys Asp Gly
206          50          55          60
207 Ser Leu Phe His Ser Thr His Lys His Asn Asn Gly Gln Pro Ile

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Input Set : A:\ippf0715pct.app.txt

Output Set: N:\CRF3\02082002\J030389.raw

```

208          65          70          75
209 Trp Phe Thr Leu Gly Ile Leu Glu Ala Leu Lys Gly Trp Asp Gln
210          80          85          90
211 Gly Leu Lys Gly Met Cys Val Gly Glu Lys Arg Lys Leu Ile Ile
212          95          100         105
213 Pro Pro Ala Leu Gly Tyr Gly Lys Glu Gly Lys Glu Leu Ser Ala
214          110         115         120
215 Thr His Pro Cys Arg Arg Met Phe Lys Gln Ile
216          125         130
217 <210> SEQ ID NO: 4
218 <211> LENGTH: 642
219 <212> TYPE: PRT
220 <213> ORGANISM: Homo sapiens
222 <220> FEATURE:
223 <221> NAME/KEY: misc_feature
224 <223> OTHER INFORMATION: Incyte ID No: 259836CD1
226 <400> SEQUENCE: 4
227 Met Ile Pro Asn Gly Tyr Leu Met Phe Glu Asp Glu Asn Phe Ile
228 1          5          10          15
229 Glu Ser Ser Val Ala Lys Leu Asn Ala Leu Arg Lys Ser Gly Gln
230          20          25          30
231 Phe Cys Asp Val Arg Leu Gln Val Cys Gly His Glu Met Leu Ala
232          35          40          45
233 His Arg Ala Val Leu Ala Cys Cys Ser Pro Tyr Leu Phe Glu Ile
234          50          55          60
235 Phe Asn Ser Asp Ser Asp Pro His Gly Ile Ser His Val Lys Phe
236          65          70          75
237 Asp Asp Leu Asn Pro Glu Ala Val Glu Val Leu Leu Asn Tyr Ala
238          80          85          90
239 Tyr Thr Ala Gln Leu Lys Ala Asp Lys Glu Leu Val Lys Asp Val
240          95          100         105
241 Tyr Ser Ala Ala Lys Lys Leu Lys Met Asp Arg Val Lys Gln Val
242          110         115         120
243 Cys Gly Asp Tyr Leu Leu Ser Arg Met Asp Val Thr Ser Cys Ile
244          125         130         135
245 Ser Tyr Arg Asn Phe Ala Ser Cys Met Gly Asp Ser Arg Leu Leu
246          140         145         150
247 Asn Lys Val Asp Ala Tyr Ile Gln Glu His Leu Leu Gln Ile Ser
248          155         160         165
249 Glu Glu Glu Glu Phe Leu Lys Leu Pro Arg Leu Lys Leu Glu Val
250          170         175         180
251 Met Leu Glu Asp Asn Val Cys Leu Pro Ser Asn Gly Lys Leu Tyr
252          185         190         195
253 Thr Lys Val Ile Asn Trp Val Gln Arg Ser Ile Trp Glu Asn Gly
254          200         205         210
255 Asp Ser Leu Glu Glu Leu Met Glu Glu Val Gln Thr Leu Tyr Tyr
256          215         220         225
257 Ser Ala Asp His Lys Leu Leu Asp Gly Asn Leu Leu Asp Gly Gln
258          230         235         240

```

→ Use of n and/or Xaa has been detected in the Sequence Listing.
 Refer to the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 02/08/2002

PATENT APPLICATION: US/10/030,389

TIME: 10:33:12

Input Set : A:\ippf0715pct.app.txt

Output Set: N:\CRF3\02082002\J030389.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application Number
L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:20 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:893 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:1029 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20